

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A multiplexing apparatus-multiplexer ~~which generates that~~ generates data by assigning different packet identifiers to (i) one of coded video data and coded audio data, and (ii) table data regarding the coded data, and by packet-multiplexing the coded data and the table data, said multiplexing apparatus-multiplexer comprising:

 a sub-descriptor generating unit operable to generate a plurality of sub-descriptors, each sub-descriptor including (i) ~~of which includes~~ a sub-tag value representing a type of side information, and (ii) the side information, the side information representing a parameter for decoding the coded data;

 a main descriptor generating unit operable to generate a main descriptor including (i) ~~which includes~~ the plurality of sub-descriptors generated by said sub-descriptor generating unit, and (ii) a main tag value representing a set of sub-descriptors of the plurality of sub-descriptors; and

 a table generating unit operable to generate the table data, the table data being generated by associating the main descriptor generated by said main descriptor generating unit[[,]] with the packet identifier of the coded data,

 wherein said sub-descriptor generating unit is operable to ~~output the sub-descriptors in an order defined by a predetermined storage rule~~ sort and output the sub-descriptors of the plurality of sub-descriptors in an order such that the sub-descriptors are arranged in the main descriptor in an ascending order according to the sub-tag value of each sub-descriptor, each sub-tag value being a natural number.

Claim 2 (Cancelled)

Claim 3 (Currently Amended) The multiplexing apparatus~~-multiplexer~~ according to Claim 1,

wherein ~~the storage rule defines that the sub-descriptors are to be classified~~ said sub-descriptor generating unit is operable to (i) classify the sub-descriptors of the plurality of sub-descriptors into groups according to when the sub-descriptors are standardized, and (ii) sort and output the sub-descriptors in an order such that a sub-descriptor belonging to a group that is standardized earlier in time is to be stored arranged in the main descriptor prior to a sub-descriptor belonging to a group that is standardized later in time.

Claim 4 (Currently Amended) The multiplexing apparatus~~-multiplexer~~ according to Claim 1,

wherein said sub-descriptor generating unit includes an internal memory for storing in~~which the plurality of generated sub-descriptors can be stored~~, and

wherein said sub-descriptor generating unit is operable to sort the sub-descriptors of the plurality of sub-descriptors to be outputted in the ascending order of the sub-descriptors defined by the storage rule, when the sub-descriptors are not stored in the ascending order in the internal memory.

Claim 5 (Currently Amended) The ~~multiplexing apparatus-multiplexer~~ according to Claim 1, further comprising:

a management information generating unit operable to multiplex flag information for specifying the ascending order-storage rule of the sub-descriptors-side information, into management information regarding the packet-multiplexed coded data and the table data; and

a linking unit operable to link the management information with the packet-multiplexed coded data and the table data.

Claim 6 (Currently Amended) A computer-readable recording medium having An-
~~information-recording medium in which data is recorded~~ thereon, the data being generated by assigning different packet identifiers to (i) one of coded video data and coded audio data, and (ii) table data regarding the coded data, and by packet-multiplexing the coded data and the table data,

wherein the table data ~~comprises has~~ a main descriptor ~~which includes~~ including: (i) a plurality of sub-descriptors, each sub-descriptor including of which includes a sub-tag value representing a type of side information and including the side information representing a parameter for decoding the coded data, ~~and the side information~~; and (ii) a main tag value representing a set of sub-descriptors of the plurality of sub-descriptors, and

wherein the sub-descriptors are stored arranged in the main descriptor in an ascending order according to the sub-tag value of each sub-descriptor, each sub-tag value being a natural number in an order defined by a predetermined storage rule.

Claim 7 (Currently Amended) The computer-readable recording medium-information-
recording medium according to Claim 6,

wherein management information linked to the packet-multiplexed coded data and table
data is further recorded onto the computer-readable recording medium, and

wherein ~~in~~ the management information[[,]] includes flag information, representing the
ascending order-storage rule of the sub-descriptors, is multiplexed therewith.

Claims 8-10 (Cancelled)

Claim 11 (Currently Amended) A multiplexing method of generating data by assigning
different packet identifiers to (i) one of coded video data and coded audio data, and (ii) table data
regarding the coded data, and by packet-multiplexing the coded data and the table data, said
method comprising ~~steps of~~:

generating a plurality of sub-descriptors, each sub-descriptor including (i) of which
~~includes~~ a sub-tag value representing a type of side information, and (ii) the side information, the
side information representing a parameter for decoding the coded data;

generating a main descriptor which includes including (i) the plurality of sub-descriptors
generated ~~in by~~ said generating of the plurality of sub-descriptors, and (ii) a main tag value
representing a set of sub-descriptors of the plurality of sub-descriptors; and

generating the table data, the table data being generated by associating the main

descriptor generated ~~in-by~~ said generating of the main descriptor[[,]] with the packet identifier of the coded data,

wherein in said generating of the plurality of sub-descriptors, the sub-descriptors of the plurality of sub-descriptors are sorted and outputted in an order such that the sub-descriptors are arranged in the main descriptor in an ascending order according to the sub-tag value of each sub-descriptor, each sub-tag value being a natural number~~outputted in an order defined by a predetermined storage rule.~~

Claim 12 (Currently Amended) A computer-readable recording medium having a program recorded thereon, the program~~which causes~~ causing a computer to execute ~~the steps in the~~ multiplexing method according to~~the~~ Claim 11.

Claim 13 (Cancelled)

Claim 14 (Cancelled)